

EVER Scientific



Centrifuge and Incubator Catalog



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Spectrafuge™ 24D

High Speed Digital Microcentrifuge

- Precision control with digital display
- Easy access 24-place rotor
- Set and view speed in rpm or rcf
- Quiet and cool running
- StripSpin™ adapter for 0.2 ml strips

The newest member of the Spectrafuge™ family, the 24D, features precise digital microprocessor control. This centrifuge is loaded with features, yet has a list price low enough to make it the most economical high performance microcentrifuge on the market.

A newly designed, easy-access 24 x 1.5 ml rotor is supplied with the Spectrafuge™ 24D. This innovative rotor places the tubes on a plateau, where the user can easily grip their tops. The powerful brushless motor quickly accelerates the rotor to a maximum speed of 13,300rpm/16,000 x g. The controls are simple, consisting of only two knobs. The speed knob is used to set the speed in either rpm or g-force. Pressing the knob toggles the display between rpm and rcf. Turning the timer knob sets the time parameter, while pushing it starts and stops operation of the unit. The last run settings remain in memory allowing for repetitive centrifuging without resetting of parameters.

Extremely quiet and cool running, this unit maintains a small footprint. The Spectrafuge 24D is available in five accent colors.

*** Please refer to page 14 for complete centrifuge specifications.**



| Catalog Number | Product Description | Quantity |
|----------------|--|--------------|
| ESC24120V* | Spectrafuge™ 24D, Gray, 120V | 1 Centrifuge |
| ESC24B120V* | Spectrafuge™ 24D, Blue, 120V | 1 Centrifuge |
| ESC24T120V* | Spectrafuge™ 24D, Teal, 120V | 1 Centrifuge |
| ESC24P120V* | Spectrafuge™ 24D, Purple, 120V | 1 Centrifuge |
| ESC24R120V* | Spectrafuge™ 24D, Red, 120V | 1 Centrifuge |
| ESC24SS | StripSpin™ Adapter for 0.2 ml tubes and strips, fits onto standard rotor | 1 Adapter |

*To order the 230V model replace 120V with 230V at the end of the catalog number

Spectrafuge™ Mini

Personal Use Mini-Centrifuge

- Small Footprint
- Ideal for quick spins and microfiltration
- Complete with rotors and adapters for:
 - 1.5/2.0 ml tubes
 - 0.5/0.4 ml tubes
 - 0.2 ml strips and tubes



This personal sized centrifuge is ideal for microfiltration and quick spin downs from the walls and caps of microcentrifuge tubes. Requiring less than six inches of bench space, the Spectrafuge™ Mini is supplied with rotors and adapters to accommodate 1.5 ml, 0.5 ml and 0.4 ml tubes as well as 0.2 ml strips and individual tubes. The standard and strip tube rotors are easily interchanged. The easy-open, translucent lid utilizes a stainless steel hinge pin for durability. Five different lid colors are available including gray, blue, teal, purple and red. An on/off switch is located on the side of the Spectrafuge™ Mini for starting and stopping operation. Alternatively, with the switch in the "on" position, the centrifuge can be started and stopped by closing and opening the lid.

*** Please refer to page 14 for complete centrifuge specifications.**

| Catalog Number | Product Description | Quantity |
|----------------|--|--------------|
| ESCSM120V* | Spectrafuge™ Mini , Gray lid, 120V | 1 Centrifuge |
| ESCSMB120V* | Spectrafuge™ Mini , Blue lid, 120V | 1 Centrifuge |
| ESCSMT120V* | Spectrafuge™ Mini , Teal lid, 120V | 1 Centrifuge |
| ESCSMP120V* | Spectrafuge™ Mini , Purple lid, 120V | 1 Centrifuge |
| ESCSMR120V* | Spectrafuge™ Mini , Red lid, 120V | 1 Centrifuge |
| ESC1300RT | Replacement 6 x 1.5 ml Rotor for Spectrafuge™ Mini | 1 Rotor |
| ESC1300RTS | Replacement Strip Tube Rotor for Spectrafuge™ Mini | 1 Rotor |
| ESC1300RW | Replacement Allen Wrench | 1 Each |
| ESC1205 | Adapter for 0.5/0.6 ml Tubes | Pack of 6 |

*To order the 230V model replace 120V with 230V at the end of the catalog number

Z100A

Compact Variable Speed Clinical Centrifuge

- Max Capacity 6 x 15 ml
- Variable Speed Up to 4,000 rpm (1,900 x g)
- Clear Lid with Safety Lock
- Adapters Available For All Common Blood Draw Tubes

The Z100A features a 6 x 15 ml fixed angle rotor. The variable speed unit runs to 4,000 rpm/1,900 x g, suitable for a variety of applications in the clinical setting or research lab. The rotor accepts six 15 ml or 10 ml tubes directly. Optional adapters accept smaller tubes, including common blood draw tubes.

The Z100A is equipped with a clear lid for visualizing the rotor. A safety interlock cuts power to the centrifuge when the lid is opened. The rugged ABS housing adds durability to the centrifuge and is easy to clean.

* Please refer to page 14 for complete centrifuge specifications.



| Catalog Number | Product Description | Quantity |
|----------------|--|--------------|
| ESCZ100A | Z100A Variable Speed Clinical Centrifuge | 1 Centrifuge |
| ESC023017A | Adapter for 5ml (13 x 75mm) and 7ml (13x100mm Tubes) | 1 Centrifuge |
| ESC020017A | Combination adapter for 5ml (12 x 75mm) and 7ml (13 x 100mm) tubes | Pack of 6 |

Z150A

Compact Lab Centrifuge

- Ideal for fast blood separations
- Platelet poor plasma in 2 minutes
- Dual speed setting: 3,500 or 5,800 rpm
- Accepts all common blood draw and laboratory tubes
- Complete with 6 x 15 ml rotor
- Lid lock system for safety



The Z150A is designed primarily for separating blood samples. It accepts 15 ml tubes directly and all common blood draw tubes with adapters.

Two speeds are preset for convenient and easy preparation of platelet poor plasma for coagulation studies (high speed) and platelet rich plasma for agglutination studies (low speed). This centrifuge can also be used for preparing chemistry analyte and urine samples, pelleting of genomic DNA, pelleting of cultures and much more.

This centrifuge features a molded rugged housing that is easy to clean. It comes packaged with a 6 x 15 ml rotor and is controlled by a 15 minute timer. The Z150A is only 8.6 inches wide and therefore requires a minimal amount of bench space.

* Please refer to page 14 for complete centrifuge specifications.

| Catalog Number | Product Description | Quantity |
|----------------|--|--------------|
| ES-C0150-A | Compact Z150A Microcentrifuge, 120V | 1 Centrifuge |
| C0150A230V | Compact Z150A Microcentrifuge, 230V | 1 Centrifuge |
| ESC020017A | Combination adapter for 5ml (12 x 75mm) and 7ml (13 x 100mm) tubes | Pack of 6 |



Z200A

General Purpose Digital Centrifuge

- Ideal for clinical or research settings
- Large Capacity - 6 x 50 ml and 12 x 15 ml rotors
- Microprocessor control, digital display
- Accepts conical and round bottom tubes as well as all common blood draw tubes

The microprocessor controlled Z200A is a compact centrifuge ideal for use in both research and clinical laboratories.

The centrifuge's control panel is a combination of digital displays and easy turn knobs. The microprocessor maintains precise control over operation of the centrifuge and brings the rotor to a soft stop at the end of a run with dynamic braking. If a load is not properly balanced, the imbalance sensor will stop operation of the unit.

Two angle rotors are available for use with the Z200A. The 15 ml rotor has a capacity for twelve tubes while the 50 ml rotor will hold six. Both rotors accept round and conical bottom tubes. A swing out rotor is also available for 6 x 5 ml tubes. Optional adapters accommodate various tube sizes including standard conical tubes and round bottom blood tubes.

* Please refer to page 14 for complete centrifuge specifications.

| Catalog Number | Product Description | Quantity |
|----------------|---|--------------|
| ESC200A120 | Z200A Universal Centrifuge without Rotor, 120V | 1 Centrifuge |
| ESC200A230 | Z200A Universal Centrifuge without Rotor, 230V | 1 Centrifuge |
| ESC20096 | Angle Rotor, 12 x 15 ml, max 6000 rpm/4,185 x g | 1 Rotor |
| ESC2329B | Adapter for 5 ml (12 x 75 mm), 7 ml (13 x 75 mm), and 10 ml (16 x 100 mm) | Pack of 6 |
| ESC20097 | Angle Rotor, 6 x 50 ml, max 6000 rpm/3,823 x g | 1 Rotor |
| ESC2328B | Adapter for 15 ml Conical and Round Bottom in 50 ml Rotor | Pack of 6 |
| ESC23041 | Booster Cushion for Shorter Tubes | Pack of 12 |
| ESC20018 | Swing Out Rotor, 6 x 5 ml, max 3,500 rpm/1,420 x g | 1 Rotor |

Z233MK-2

High Performance Refrigerated Microcentrifuge

- Our smallest refrigerated microcentrifuge
- High speed - up to 21,380 x g
- Seven rotor options

The Z233MK-2 microcentrifuge has been designed to provide total control over operating parameters. A microprocessor, brushless induction drive, high speed capabilities and powerful refrigeration make this centrifuge the ultimate in high performance.

Operating parameters, including speed/g-force, run time and temperature are set using easy to turn knobs while their values are shown on large digital displays. Both rpm and g-force can be displayed during a run. Acceleration and deceleration rates can be set at fast or slow. Momentary spins are achieved by pressing the quick button. The powerful refrigeration system in the unit cools the chamber and rotor quickly and maintains the set temperature throughout the run, even at maximum speed.

A rugged housing, heavy duty lid lock and hinge as well as a stainless steel bowl make the Z233MK-2 microcentrifuge a durable workhorse. Seven rotor options are available.

* Please refer to page 14 for complete centrifuge specifications.



| Catalog Number | Product Description | Quantity |
|----------------|---|--------------|
| ESC233MK2 | Z233MK-2 High Performance, 120V | 1 Centrifuge |
| ES233MK223 | Z233MK-2 High Performance, 230V | 1 Centrifuge |
| ESC20095 | Angle Rotor, 18 x 1.5 ml, max 14,000 rpm/15,994 x g | 1 Rotor |
| ESC2302A | Angle Rotor, 24 x 1.5 ml, max 15,000 rpm/21,380 x g | 1 Rotor |
| ESC2302AH | Angle Rotor, 24 x 1.5 ml, Hermetically Sealed, max 15,000 rpm/21,380 x g | 1 Rotor |
| ESC2309A | Angle Rotor, 44 x 1.5 ml, max 14,000 rpm/18,400 x g | 1 Rotor |
| ESC23055A | Angle Rotor, 48 place: 24 x 1.5 ml and 24 x 0.5 ml max 14,000 rpm/18,400 x g | 1 Rotor |
| ESC230TSA | EZ-8™ Tube Rotor with 0.2 ml PCR Strip Tube Adapters, max 13,000 rpm/13,225 x g | 1 Rotor |
| ESC1205 | Adapter for 0.5/0.6 ml Tubes | Pack of 6 |
| ESC1206 | Adapter for 0.4/0.25 ml Tubes | Pack of 6 |
| ESC1222 | Adapter for 0.2 ml Thermal Cycling Tubes | Pack of 6 |
| ESC230HLARA | Swing out Rotor, 12 x 1.5 ml Microcytometry Tubes | 1 Rotor |

Z300



Universal Centrifuge

- Swing out and angle rotors for tubes and microplates
- Maximum capacity 4 x 100 ml
- High speed microtube rotors reach 17,310 x g
- Automatic rotor identification and g-force conversion

Z300K

Refrigerated Universal Centrifuge

- Powerful refrigeration system
- Space saving design with refrigeration system in the back
- Maximum capacity 4 x 100 ml
- Swing out and angle rotors for tubes and microplates

The Z300 and Z300K are the most economical of the universal microprocessor controlled units in the Hermlle line. These centrifuges accommodate microplates and tubes up to 100 ml in swing-out and fixed angle rotors. A broad speed range and high g-force make them ideal for applications from clinical to molecular biology.

A digital microprocessor controls all operating parameters including speed and time. Overspeed conditions are eliminated by the rotor recognition program which automatically identifies each rotor and limits it to the maximum rated speed. Improperly loaded rotors trigger the safety imbalance detection system which stops operation of the centrifuge.

The powerful, induction drive in the Z300 centrifuges quickly accelerates rotors to the preset speed. Two acceleration and deceleration rates can be chosen to protect fragile samples. Operation of the centrifuge may be timed, continuous or momentary.

Ambient air circulates throughout the chamber of the Z300 preventing significant rises in sample temperature. The refrigeration system in the Z300K maintains all rotors at the set temperature regardless of rotor speed.

*** Please refer to page 14 for complete centrifuge specifications.**

| Catalog Number | Product Description | Quantity |
|----------------|--|--------------|
| ESC300120V | Z300 Universal Centrifuge, 120V | 1 Centrifuge |
| ESC300230V | Z300 Universal Centrifuge, 230V | 1 Centrifuge |
| ESC300K120 | Z300K Refrigerated Universal Centrifuge, 120V | 1 Centrifuge |
| ESC300K230 | Z300K Refrigerated Universal Centrifuge, 230V | 1 Centrifuge |
| ESC30012 | Swing Out Rotor, 4 x 100 ml | 1 Rotor |
| ESC300120 | Carrier 1 x 100 ml for ESC30012 | 1 Carrier |
| ESC300122 | Carrier 1 x 50 ml Conical for ESC30012 | 1 Carrier |
| ESC300123 | Carrier 2 x 15 ml Conical for ESC30012 | 1 Carrier |
| ESC300124 | Carrier 7 x 10 ml Round for ESC30012 | 1 Carrier |
| ESC300126 | Carrier 7 x 5 ml/7 ml (12 x 75 mm/ 13 x 100 mm) for ESC30012 | 1 Carrier |
| ESC30016 | Swing Out Rotor with 2 Microplate Carriers, 2762 x g max | 1 Rotor |
| ESC320504 | Insert, 48 x 1.5 ml for Microplate Rotor | 2 Inserts |
| ESC30015 | Swing Out Rotor 8 x 15 ml | 1 Rotor |
| ESC30050 | Swing Out Rotor 4 x 50 ml | 1 Rotor |
| ESC30096 | Angle Rotor 12 x 15 ml Conical or Round bottom | 1 Rotor |
| ESC30097 | Angle Rotor 6 x 50 ml | 1 Rotor |
| ESC32381 | Angle Rotor 24 x 15 ml with Shields | 1 Rotor |
| ESC20010 | Adapter, 10 ml (16,17 x 100 mm), for 15 ml Rotor | Pack of 4 |
| ESC32371 | Swing Out Rotor Complete with 4 Buckets (no covers), 4 x 100 ml | 1 Rotor |
| ESC32372 | Swing Out Rotor Complete with 4 Buckets and Sealing Covers, 4 x 100 ml | 1 Rotor |
| ESC320720 | Insert, 1 x 80 ml Tube or 100 ml Tube, for ESC32371 or -72 | 1 Insert |
| ESC320724 | Insert, 4 x 10 ml Tube (16,17 x 100 mm) Tube, for ESC32371 or -72 | 1 Insert |
| ESC320725 | Insert, 7 x 5 ml (10,12 x 75 mm) Tube, for ESC32371 or -72 | 1 Insert |
| ESC320726 | Insert, 2 x 15 ml Tube (Conical without Lid) for ESC32371 or -72 | 1 Insert |
| ESC320728 | Insert, 1 x 50 ml Conical Tube for ESC32371 or -72 | 1 Insert |
| ESC320730 | Insert, 4 x 7 ml (13 x 100 mm) Tube, for ESC32371 or -72 | 1 Insert |
| ESC38250 | Swing Out Rotor with 2 Microplate Carriers | 1 Rotor |
| ESC25287 | Angle Rotor, 24 x 1.5 ml | 1 Rotor |
| ESC25287H | Angle Rotor, 24 x 1.5 ml, Hermetically Sealed | 1 Rotor |
| ESC2529 | Angle Rotor, 44 x 1.5 ml | 1 Rotor |
| ESC25255 | Angle Rotor, 48 Place, 24 x 0.5 ml, 24 x 1.5 ml | 1 Rotor |

Z400

High Capacity Universal Centrifuge

- Swing out capacity for 4 x 500 ml, 28 x 50 ml and 48 x 15 ml
- Broad speed range and high g-force (to 17,310 x g) meet a variety of applications
- Multiple swing out and angle rotor options for tubes and plates
- Microprocessor control with g-force conversion, rotor identification

Z400K

High Capacity Refrigerated Centrifuge

- Powerful refrigeration system maintains all rotors at or below 4°C
- Capacity for 4 x 500 ml, 28 x 50 ml and 48 x 15 ml
- Multiple rotor options for tubes, plates and aerosol containment
- Microprocessor based controls for quick and easy programming



Multiple swing-out and angle rotor options make the Z400 series centrifuges useful for a wide range of applications from molecular and cellular biology to microplate technology and blood separations.

The microprocessor based controls are designed for quick and easy programming. Parameters are set with knobs while their values are shown on large digital displays. To prevent accidental change, the knobs are inactivated during a run unless the preset key is depressed.

Both the Z400 and Z400K feature maintenance-free, induction drives for exceptionally quiet and smooth operation. Safety features include an electronic lid lock, imbalance sensors and a rotor recognition program that automatically limits each rotor to its maximum rated speed. G-force conversion software allows for setting and display of speed in rpm or RCF. Acceleration and deceleration rates can be set at fast or slow.

A continuous flow of ambient air through the rotor chamber of the Z400 prevents sample temperature from rising significantly above ambient temperature, even during extended runs. The powerful refrigeration system in the Z400K can maintain all of the available rotors at or below 4°C, even at maximum speed.

*** Please refer to page 14 for complete centrifuge specifications.**

| Catalog Number | Product Description | Quantity |
|----------------|---|--------------|
| ESC400120V | Z400 Universal Centrifuge, 120V | 1 Centrifuge |
| ESC400230V | Z400 Universal Centrifuge, 230V | 1 Centrifuge |
| ESC400K120 | Z400K High Capacity Refrigerated Universal Centrifuge, 120V | 1 Centrifuge |
| ESC400K230 | Z400K High Capacity Refrigerated Universal Centrifuge, 230V | 1 Centrifuge |
| ESC38375 | Swing-out Rotor 4 place, with Insert Holders, 4 x 500 ml | 1 Rotor |
| ESC38375I | Carrier 25 x 1.5 ml, for ESC38375 | Pack of 2 |
| ESC38375G | Carrier 19 x 5 ml/7 ml (12 x 75 mm/13 x 100 mm), for ESC38375 | Pack of 2 |
| ESC38375F | Carrier 19 x 10 ml (16 x 100 mm) for ESC38375 | Pack of 2 |
| ESC38375A | Carrier 12 x 15 ml Conical for ESC38375 | Pack of 2 |
| ESC38375B | Carrier 5 x 50 ml Conical for ESC38375 | Pack of 2 |
| ESC38375C | Carrier 7 x 50 ml Conical (cannot use lid), for ESC38375 | Pack of 2 |
| ESC38375E | Carrier 1 x 250 ml for ESC38375 | Pack of 2 |
| ESC38375D | Carrier 1 x 500 ml for ESC38375 | Pack of 2 |
| ESC38375H | Carrier for Microplates for ESC38375 | Pack of 2 |
| ESC38375DB | Bottle, Polyethylene 1 x 500 ml for ESC38375 | 1 Bottle |
| ESC38375L | Sealing Lid for ESC38375 Carriers | 1 Lid |
| ESC40015 | Swing-out Rotor 20 x 15 ml | 1 Rotor |
| ESC40050 | Swing-out Rotor 12 x 50 ml | 1 Rotor |
| ESC25255 | Angle Rotor, 48 place, 24 x 0.5 ml, 24 x 1.5 ml | 1 Rotor |
| ESC25287 | Angle Rotor, 24 x 1.5 ml, 13,500 rpm | 1 Rotor |
| ESC25287H | Angle Rotor, 24 x 1.5 ml, Hermetically Sealed | 1 Rotor |
| ESC2529 | Angle Rotor, 44 x 1.5 ml/2.0 ml | 1 Rotor |
| ESC32381 | Angle Rotor 24 x 15 ml with Shields | 1 Rotor |

Z513

Large Volume High Performance Centrifuge

- Ultimate flexibility offered by multiple rotor and adapter options
- Capacity for 4 x 1,000 ml and up to 42 x 50 ml
- Microprocessor control with g-force conversion, rotor ID and program memory



Z513K



Large Volume Refrigerated High Performance Centrifuge

- Powerful refrigeration system
- A variety of rotor and adapter options to meet a range of applications
- Capacity for 4 x 1,000 ml and up to 42 x 50 ml
- Standard features include g-force conversion, rotor ID and program memory

These large capacity centrifuges offer a flexible system of rotors and adapters to accommodate nearly every standard tube found in the laboratory as well as microplates, blood bags and oil test tubes. High speed angle and microplate rotors and large capacity swing-out rotors make the Z513 and Z513K a valuable addition to any high throughput laboratory.

Both the ambient Z513 and the refrigerated Z513K feature a brushless motor, microprocessor control and an ergonomic control panel that combines easy-turn knobs with large digital displays. Both preset and actual speed and temperature are displayed simultaneously. Coarse and fine adjustment knobs allow exact speed values to be easily and quickly set in either rpm or g-force. The g-force conversion program with radius correction ensures that the correct speed is reached.

Ten complete programs can be stored in memory and recalled at the touch of a button. Programs include all parameters necessary for a run including time, temperature, speed/RCF, braking intensity and rotor type. An imbalance sensor shuts down operation of the centrifuge in the case of an improperly loaded rotor while the rotor recognition system limits each rotor to its rated maximum speed, regardless of the speed set. A motor driven lid lock makes it easy to close the lid of the centrifuge.

*** Please refer to page 14 for complete centrifuge specifications.**

| Catalog Number | Product Description | Quantity |
|----------------|--|--------------|
| ESC513120V | Z513, Large Volume, High Performance Centrifuge, 120V | 1 Centrifuge |
| ESC513230V | Z513, Large Volume, High Performance Centrifuge, 230V | 1 Centrifuge |
| ESC513K230 | Z513K Large Volume, Refrigerated High Performance Centrifuge, 230V | 1 Centrifuge |
| ESC51376 | Swing Out Rotor, 4 places, w/ Wind Shield, max speed: 5,000 rpm | 1 Rotor |
| ESC51375 | Swing Out Rotor, 4 places, w/o Wind Shield, max speed: 4,000 rpm | 1 Rotor |
| ESC51311 | Swing Out Rotor, 6 places, Holds 75 Carriers, speed 4,000 rpm | 1 Rotor |
| ESC51360 | Hermetically Sealable Round Bucket for 1,000 ml Bottles for ESC51375 | Pack of 2 |
| ESC51360E | Adapter for 5 x 50 ml Falcon, O.D. 30 mm, for ESC51360 Bucket | Pack of 2 |
| ESC51360F | Adapter for 7 x 50 ml Plastic Tube, O.D. 30 mm for ESC51360 Bucket | Pack of 2 |
| ESC51360H | Adapter for 12 x 15 ml, O.D. 17.5 mm for ESC51360 Bucket | Pack of 2 |
| ESC51360I | Adapter for 18 x 15 ml, O.D. 17.5 mm for ESC51360 Bucket | Pack of 2 |
| ESC51360K | Adapter for 32 x 7 ml, O.D. 13.5 mm for ESC51360 Bucket | Pack of 2 |
| ESC51360L | Adapter for 21 x 10 ml, O.D. 16.5 mm for ESC51360 Bucket | Pack of 2 |
| ESC51360M | Adapter for 35 x 5 ml, O.D. 13.5 mm for ESC51360 Bucket | Pack of 2 |
| ESC51370 | Rectangular Bucket for Rotors ESC51376 and ESC51375 | Pack of 2 |
| ESC51370G | Tube Rack 8 x 50 ml Falcon, for ESC51370 Bucket | Pack of 2 |
| ESC51370I | Tube Rack 30 x 15 ml, for ESC51370 Bucket | Pack of 2 |
| ESC51370J | Tube Rack, 17 x 15 ml (Conical and Round tubes), for ESC51370 bucket | Pack of 2 |
| ESC51370K | Tube Rack, 48 x RIA (5 ml), for ESC51370 Bucket | Pack of 2 |
| ESC51370L | Tube Rack, 48 x RIA (5 ml), for ESC51370 Bucket | Pack of 2 |
| ESC51370M | Tube Rack, 48 x Hemolyse, for ESC51370 Bucket | Pack of 2 |
| ESC38276 | Angle Rotor, 8 x 30 ml, High Speed | 1 Rotor |
| ESC38276H | Angle Rotor, 8 x 30 ml, Hermetically Sealed | 1 Rotor |
| ESC38291 | Angle Rotor, 8 x 50 ml, High Speed | 1 Rotor |
| ESC38291H | Angle Rotor, 8 x 50 ml, Hermetically Sealed | 1 Rotor |
| ESC38278 | Angle Rotor, 6 x 85 ml. High Speed | 1 Rotor |
| ESC38278H | Angle Rotor, 6 x 85 ml, Hermetically Sealed | 1 Rotor |

Incubators

Mini-Incubator

Compact and Economical

- Ideal for microbiology or hematology applications
- Corrosion resistant chamber
- Three shelf levels
- Door with large viewing area
- Pilot light to indicate heating



Specifications

| | |
|-----------------------------|----------------------|
| Exterior Dimensions (WxDxH) | 11.2 x 11 x 13.2 in |
| Interior Dimensions | 9 x 7.9 x 7.9 in |
| Weight | 18.4 lb |
| Capacity | 0.375 cu. ft. |
| Temperature Range | ambient +5 to 60°C |
| Controls | analog |
| Stability | +/- 0.6°C at 37°C |
| Uniformity | 0.65°C at 37°C |
| Electrical | 120V, 50/60 Hz, 0.6A |
| | 230V, 50/60 Hz, 0.3A |

The compact **Mini Incubator** offers a cost effective and space saving solution for incubating culture flasks, dishes, test tubes and plates. A broad temperature range meets a variety of small sample applications.

Even heating and uniformity within the chamber are ensured by the wrap-around heating elements. Control of heating and temperature stability are maintained by a hydraulic thermostat. A pilot light on the front panel indicates when the unit is heating. Users can accurately monitor the temperature within the chamber by placing a thermometer (available separately) in the port built-in to the top of the incubator.

A large plexiglass viewing area in the door of the **Mini Incubator** gives a clear view of the contents. Easy to clean shelves can be placed at three levels within the chamber. The corrosion resistant interior and dependable construction provide for a long, maintenance-free, service life.

The **Mini Incubator** accommodates up to 48 Petri dishes or 28 standard 96 well plates.

| Catalog Number | Product Description | Quantity |
|----------------|--|---------------|
| ESI110120V | Mini Incubator, 0.375 cu. Ft., Compact General Purpose, 120V | 1 Incubator |
| ESI110230V | Mini Incubator, 0.375 cu. Ft., Compact General Purpose, 230V | 1 Incubator |
| ESI110SHF | Shelf for I110, 22 x 18 cm | 1 Shelf |
| ESW20110C | Non-toxic, Teflon Coated Safety Thermometer (-20° to 100°C) | 1 Thermometer |

311D and 611D



High Performance Incubators

- Expanded temperature range
- Fail-safe over-temperature protection
- Switchable turbo fan
- Digital microprocessor

Specifications

| | 311D | 611D |
|---------------------------------------|-----------------------|-----------------------|
| Chamber Volume | 2.75 cu. ft. | 6.0 cu. ft. |
| Temperature Range | Ambient +5°C to 95°C | Ambient +5°C to 95°C |
| Temperature Uniformity at 37°/56°/90° | ±0.2°C/±0.5°C/±0.75°C | ±0.25°C/±0.6°C/±0.9°C |
| Temperature Accuracy | ±0.2°C | ±0.2°C |
| Temperature Display | to 0.1°C | to 0.1°C |
| Dimensions (WxDxH) | | |
| Chamber | 17 x 14 x 20 in. | 21 x 20 x 25 in. |
| Exterior | 27 x 20 x 29 in. | 31 x 26 x 34 in. |
| Weight | 140 lbs. | 185 lbs. |
| Electrical | 120V~, 60 Hz | 120V~, 60 Hz |

The 311D and 611D High Performance Incubators feature a broad temperature range and microprocessor control, and they are ideal for applications requiring strict temperature control as well as general incubations.

Incubator temperature is set with a membrane keypad with values shown digitally on the large display. The feedback systems in the exclusive SmartChek™ system ensure precise regulation of temperature.

A jacket of warm air surrounds the chamber on all sides, including the door, to provide a stable, uniform environment. For quick recovery after the door is opened and added uniformity, the turbo fan may be turned on. Opening the solid outer door turns on the interior light and reveals the full size glass inner door. Samples can be visualized without disrupting the temperature environment.

The electronics in the 311D and 611D incubators are located away from the chamber, keeping them safe from heat related stress. An independent safety thermostat protects samples in the event of a primary controller failure. Each incubator features an interior outlet for powering small equipment such as a rotator (see pages 10-11). Two shelves are standard. Additional shelves are sold separately.

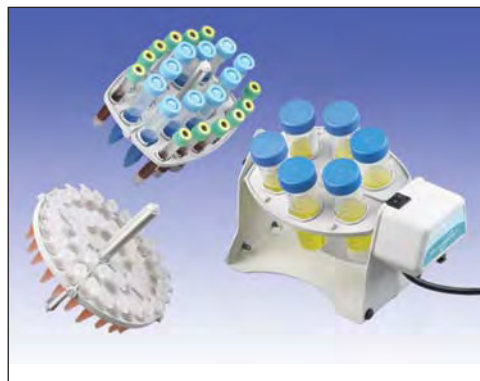
| Catalog Number | Product Description | Quantity |
|----------------|--|-------------|
| ESI311D | Digital High Performance Incubator, 2.75 cu. ft., Model 311D | 1 Incubator |
| ESI611D | Digital High Performance Incubator, 6.0 cu. ft., Model 611D | 1 Incubator |
| ESI319 | Shelf for Model 311D | 1 Shelf |
| ESI619 | Shelf for Model 611D | 1 Shelf |

ROTATORS

Mini LabRoller™ Rotator

Mini Rotator

- Compact design
- Quiet operation
- Variety of motions
- Cold room and incubator compatible
- Three interchangeable rotisseries



Specifications

Holds various size tubes and plates:

- 36 x 1.5/2.0 ml
- 10 x 15 ml
(15-17 mm diameter)
- 12 x 5/7 ml
(12-13 mm diameter)
- 6 x 50 ml
- 2 x 96 well plates

| | |
|-----------------------|--|
| Motion/Speed | Rotating, rocking, tumbling |
| Speed 115V/230V | 24 rpm/20 rpm |
| Capacity | |
| ESH550002 | 36 x 1.5/2.0 ml tubes |
| ESH550015 | 10 x 15 ml conical tubes |
| ESH550050 | 6 x 50 ml tubes |
| Max. Load | 1.75 lb |
| Supplied accessories | Rotisserie for 36 x 1.5/2.0 ml tubes; set of two pegs |
| Operating temperature | 4° to 40°C |
| Dimensions (WxDxH) | 8.4 x 4 x 5 in |
| Weight | 4 lb |
| Electrical | 120V~, 50/60 Hz, 0.03A |
| | 230V~, 50/60 Hz, .0015A |

Simple, yet versatile, the Mini LabRoller™ Rotator is designed for mixing samples in both a horizontal and vertical plane. The unit accepts a broad assortment of tube sizes as well as micro plates. Safe for cold room or incubator use, this mixer is ideal for a wide range of applications in areas such as hematology, chemistry, molecular biology, clinical testing and histochemistry.

It is compact and sleek which allows for a small footprint and efficient housing design which conserves valuable bench space and makes the Mini LabRoller™ Rotator suitable for any size laboratory. It has an ambient operating range of 4° to 40°C and will easily fit into most incubators. Lightweight and portable, the unit is easily moved from the bench to a biological or chemical hood. Simple construction allows for easy cleaning and decontamination.

The Mini LabRoller™ Rotator has a wide range of motion and is uniquely designed so that the level of agitation can be adjusted from gentle rolling, through two levels of tumbling, to forceful end over end mixing simply by changing the rotisserie position. When a rotisserie is inserted horizontally (tubes held vertically), an end over end motion is produced. The unit can then be used for simple rotating, or rested on either end to create a tumbling motion. Placing the Mini LabRoller™ on the end with the power switch will create a more vigorous tumbling motion than resting it on the opposite end. A rocking motion is achieved by simply inserting pegs to limit the movement of the rotisserie to 20°, 45°, or 60°. Any of the three available rotisseries can be used as a rocking platform. Using the supplied rod, the rotisseries may be mounted vertically (tubes held horizontally). In all configurations, the speed of the rotisserie is fixed at 24 rpm.

The Mini LabRoller™ Rotator is supplied with a rotisserie for 36 x 1.5 or 2.0 ml tubes. Two additional rotisseries are available separately. The first accommodates ten conical 15 ml or other tubes with a 15-17 mm diameter as well as twelve tubes with a 12-13 mm diameter. The second holds six 50 ml conical tubes. Microplates can be used on any of the three rotisseries.

With three rotisserie configurations, dual rotisserie positions and the ability to change the position of the unit to produce a wide range of motions, the Mini LabRoller™ Rotator has applications in a variety of areas. In addition, it is small, quiet and economical, making it an excellent value.

| Catalog Number | Product Description | Quantity |
|----------------|--|--------------|
| ESH5500 | Mini LabRoller Rotator with rotisserie for 36 x 1.5/2.0 ml tubes | 1 Rotator |
| ESH550002 | Mini LabRoller Rotisserie for 36 x 1.5 ml tubes | 1 Rotisserie |
| ESH550015 | Mini LabRoller Rotisserie for 10 x 15, 6 x 5 ml tubes or 2 microplates | 1 Rotisserie |
| ESH550050 | Mini LabRoller Rotisserie for 6 x 50 ml tubes or 2 microplates | 1 Rotisserie |

● GyroMini™ Nutating 3-D Mixer

GyroMini™

- Gyrotory action provides gentle, thorough mixing
- Ideal for mixing samples in blood and centrifuge tubes
- Perfect for resuspension of large, fragile DNA fragments
- Included dimpled mat holds tubes in place
- Safe for cold room use



Catalog Number

ESS0500
ESS0500MAT

Specifications

| | |
|-----------------------------|--------------------------------|
| Speed Range | 24 rpm (20 rpm for 230V model) |
| Motion/Pitch | 3-D/ fixed 20° |
| Maximum Load | 1.75 lb |
| Ambient Operating Range | +4°C to 40°C |
| Overall Dimensions (WxDxH) | 9.5 x 6.75 x 6 in |
| Platform Dimensions (WxDxH) | 9.5 x 6.75 in |
| Weight | 1.9 lb |
| Electrical | 120V~, 60 Hz or 230V~, 50 Hz |

The GyroMini's™ small size makes it ideal for mixing samples in blood and centrifuge tubes. It combines the motions of an orbital shaker and a rocker to produce a three dimensional action. The result is a thorough yet gentle mixing without foaming. Both the speed and tilt angle of this small shaker are fixed to provide the optimal level of agitation for mixing and resuspension of cell buttons in small containers such as blood and centrifuge tubes.

The GyroMini™ is supplied with a dimpled mat for holding tubes firmly in place. The mat will hold as many as 60 x 1.5 ml tubes, 30 pediatric blood tubes (3 ml), 21 standard blood tubes (7 ml), 17 x 15 ml tubes and 9 x 50 ml tubes. For temperature sensitive samples, the GyroMini™ may be used in a cold room.

Product Description

GyroMini™ Nutating 3-D Mixer with Mat
Additional Dimpled rubber mat for Mini Nutating Mixer

Quantity

1 Mixer
1 Mat

● VX-100 Vortex Mixer

Continuously adjustable speed control makes the VX-100 Vortex Mixer useful for a variety of applications from gentle mixing of samples to resuspending pellets. Two modes of operation can be selected. "Touch" control allows the VX-100 to be activated only when needed by depressing the sample head. When set to "on" the unit will operate continuously until switched to the off position.

The general purpose cup attachment supplied with the VX-100 accepts a variety of different sized tubes. Additional heads are available for mixing larger sample tubes, multiple microtubes and microplates. Heavy duty construction ensures a long life, and combined with the rubber feet, keeps the unit stable and prevents "walking". A small footprint allows the VX-100 to be used virtually anywhere, including temperature controlled environments from 4° to 65°C. The VX-100 Vortex Mixer is 4.7 x 6.1 x 5.1 inches in size and weighs 8 pounds.



- Powerful motor for efficient mixing
- Continuously variable speed control (200 - 3,000 rpm)
- "Touch" or continuous operation
- Optional heads for larger tubes, microtubes and microplates
- Safe for cold room or incubator use

Catalog Number

ES0100
ES0100-10
ES0100-11
ES0100-12
ES0100-14
ES0100-15
ES0100-16

Product Description

Vortex Mixer, Model VX-100, with Universal Cup Head
3 inch Flat Head Optional Attachment for Vortex Mixer
Optional Attachment for 60 Microtubes for Vortex Mixer
Optional Attachment for 1 Microplate for Vortex Mixer
Vortex Head Adapter for 12 x 1.5 ml Tubes Held Horizontally
Vortex Head Adapter for 4 x 15 ml Tubes Held Horizontally
Vortex Head Adapter for 2 x 50 ml Tubes Held Horizontally

Quantity

1 Vortex
1 Attachment
1 Attachment
1 Attachment
1 Adapter
1 Adapter
1 Adapter

Centrifuge Tubes

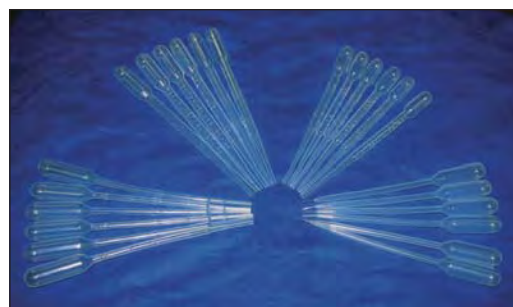
- Clear Polypropylene
- Gamma Radiation Sterilized
- Non-Pyrogenic
- Plug-Seal Cap and Flat-Top Cap
- Conical Bottoms
- White Printed Graduations
- RCF > 8,400 x g
- Working Temperature 0° to 40° C



| Catalog Number | Product Description | Quantity |
|----------------|--------------------------------|-------------------------------------|
| ES-0151N* | 15 ml Plug-Seal Cap, Rack Pack | 50 Tubes per Rack/10 Racks per Case |
| ES-0152N* | 15 ml Plug-Seal Cap, Bulk Pack | 50 Tubes per Bag/10 Bags per Case |
| ES-0501N* | 50 ml Plug-Seal Cap, Rack Pack | 25 tubes per Rack/20 Racks per Case |
| ES-0502N* | 50 ml Plug-Seal Cap, Bulk Pack | 50 tubes per Bag/10 Bags per Case |
| ES-9151N* | 15 ml Flat-Top Cap, Rack Pack | 50 Tubes per Rack/10 Racks per Case |
| ES-9152N* | 15 ml Flat-Top Cap, Bulk Pack | 50 Tubes per Bag/10 Bags per Case |
| ES-9501N* | 50 ml Flat-Top Cap, Rack Pack | 25 tubes per Rack/20 Racks per Case |
| ES-9502N* | 50 ml Flat-Top Cap, Bulk Pack | 50 tubes per Bag/10 Bags per Case |

Transfer Pipets

- All Purpose, Easy to Use
- Disposable
- Polyethylene, 100% Inert
- All One-Piece Flexible
- Safe For Sampling and Transfer of Fluids
- Sterile and Non-Sterile



| Catalog Number | Product Description | Quantity |
|----------------|--|----------------------------|
| ES-0125* | 11.5 cm Long, 1.1 ml Capacity Pipet | 1,000 per Pack/10 per Case |
| ES-0126* | 8.5 cm Long, 1.3 ml Capacity Pipet | 1,000 per Pack/10 per Case |
| ES-0130* | 6.3 cm Long, Graduated 1.0 ml Capacity | 1,000 per Pack/10 per Case |
| ES-0135* | 16 cm Long, Graduated 6.2 ml Capacity | 500 per Pack/10 per Case |
| ES-0138* | 16 cm Long, Graduated 7.5 ml Capacity | 500 per Pack/10 per Case |
| ES-0601* | 6 cm Long, Fine-Tip 0.7 ml Capacity | 1,000 per Pack/10 per Case |
| ES-0604* | 14.8 cm Long, Fine-Tip 5.6 ml Capacity | 500 per Pack/10 per Case |
| ES-0616* | 23.2 cm Long, 5.5 ml Capacity | 500 per Pack/10 per Case |
| ES-0617* | 14 cm Long, Graduated 3.8 ml Capacity | 500 per Pack/10 per Case |
| ES-0620* | 15 cm Long, Graduated 5.5 ml Capacity | 500 per Pack/10 per Case |

STERILE TRANSFER PIPETS

| | | |
|-------------|--|---|
| ES-0135B20* | 16 cm Long, Graduated Sterile 6.2 ml Capacity | 20 Pipets/bag, 25 bags/pack, 10 packs/case |
| ES-0135A1* | 16 cm Long, Graduated Sterile 6.2 ml Capacity | Individually wrapped, 500/pack, 10 packs/case |
| ES-0138A1* | 16 cm Long, Graduated Sterile 7.5 ml Capacity | Individually wrapped, 500/pack, 10 packs/case |
| ES-0138B20* | 16 cm Long, Graduated Sterile 7.5 ml Capacity | 20 Pipets/bag, 25 bags/pack, 10 packs/case |
| ES-0601B10* | 6 cm Long, Fine-tip Sterile 0.7 ml Capacity | 10 Pipets/bag, 100 bags/pack, 10 packs/case |
| ES-0604A1* | 14.8 cm Long, Fine-tip Sterile 5.6 ml Capacity | Individually wrapped, 500/pack, 10 packs/case |
| ES-0604B20* | 14.8 cm Long, Fine-tip Sterile 5.6 ml Capacity | 20 Pipets/bag, 25 bags/pack, 10 packs/case |
| ES-0616A1* | 23.2 cm Long, Sterile 5.5 ml Capacity | Individually wrapped, 500/pack, 10 packs/case |
| ES-0620A1* | 15 cm Long, Graduated Sterile 5.5 ml Capacity | Individually wrapped 500/pack, 10 packs/case |
| ES-0620B10* | 15 cm Long, Graduated Sterile 5.5 ml Capacity | 10 Pipets/bag, 50 bags/pack, 10 packs/case |

* Available in Case Quantities Only

● Rapid-Blast™ Dusting Spray

Quick-Activated Rapid Blast™

- Emits 140 psi of pressure per triggering event
- Leaves no messy liquid residue often seen with other products
- Completely safe for the end user
- Completely safe for the environment
- Cleans almost any surface immediately with moisture-free blasts

With just one pull of the Rapid Blast™ trigger you will see how Ever Scientific's dusting spray blows away the competition. In direct comparisons with similar products the Rapid Blast™ duster was shown to be the most powerful. A one-trigger response generates two times the pressure of the leading competition. It is non-toxic, non-corrosive, and non-conductive. Rapid Blast™ contains no chlorine and is safe for the stratospheric ozone.



Catalog Number
RAP-BLST

Product Description
Rapid Blast™ Dusting Spray, 10 oz

Quantity
12 per Case

● Ever-Ink™ Chemically Resistant Markers



This marker is especially designed for cytology and histology but may be utilized for many laboratory applications. The ultra fine tip leaves a permanent mark on slides, cassettes and most laboratory plastics. It is smearproof, waterproof, odorless and resistant to chemicals such as alcohol and xylene.

Catalog Number
ES-001

Product Description
Ever-Ink™ Chemically Resistant Marker, Black

Quantity
12 per Box

Centrifuge Specifications

| | Max Capacity | Max Speed | Max RCF | Dimensions (WxDxH) Inches | Weight | Electrical |
|--------------------------|----------------------------------|------------|------------|---------------------------|-----------|------------------------------|
| Spectrafuge™ 24D | 24 x 1.5/2.0 ml | 13,300 rpm | 16,300 x g | 9.25 x 11.5 x 8.5 | 18 lb | 120V~, 60 Hz 230V~, 50 Hz |
| Spectrafuge™ Mini | 6 x 1.5/2.0 ml 2 x PCR strips | 6,000 rpm | 2,000 x g | 5.9 x 5.9 x 4.6 | 1 lb | 120V~, 60 Hz 230V~, 50 Hz |
| Z100A | 6 x 15 ml | 4,000 rpm | 1,900 x g | 11 x 13.75 x 10.2 | 15 lbs | 120V/50-60 Hz |
| Z150A | 6 x 15 ml | 5,800 rpm | 3,120 x g | 8.6 x 10.6 x 7.0 | 8.8 lbs | 120V~, 60 Hz 230V~, 50 Hz |
| Z200A | 12 x 15 ml 6 x 50 ml | 6,000 rpm | 4,185 x g | 11 x 14.6 x 10.2 | 33 lbs | 120V~, 60 Hz 230V~, 50 Hz |
| Z233MK-2 | 44 x 1.5/2.0 ml | 15,000 rpm | 21,380 x g | 12.6 x 21.25 x 11.4 | 86 lbs | 120V~, 60 Hz 230V~, 50 Hz |
| Z300 | 4 x 100 ml | 13,500 rpm | 17,310 x g | 14 x 18.1 x 13 | 88 lbs | 120V~, 60 Hz 230V~, 50 Hz |
| Z300K | 4 x 100 ml | 13,500 rpm | 17,310 x g | 16.5 x 26.4 x 13.2 | 167.2 lbs | 120V~, 60 Hz 230V~, 50 Hz |
| Z400 | 4 x 500 ml | 13,500 rpm | 17,310 x g | 16.1 x 22.2 x 14.8 | 121 lbs | 120V~, 60 Hz 230V~, 50 Hz |
| Z400K | 4 x 500 ml | 13,500 rpm | 17,310 x g | 29.1 x 22.8 x 13.4 | 174 lbs | 120V~, 60 Hz 230V~, 50 Hz |
| Z513 | 4 x 1,000 ml | 12,000 rpm | 16,580 x g | 24 x 28.7 x 18.3 | 198 lbs | 120V~, 60 Hz 230V~, 50 Hz |
| Z513K | 4 x 1,000 ml | 12,000 rpm | 16,580 x g | 31.1 x 28.7 x 18.3 | 308 lbs | 230V/50-60 Hz |

| | Complete with Rotor | Brushless motor | Digital Display | G-Force/RPM conversion | Refrigerated | Maximum RCF | Microtubes | Strip Tubes | Angle Rotors | Swing out | Plates | High Capacity |
|------------------|---------------------|-----------------|-----------------|------------------------|--------------|-------------|------------|-------------|--------------|-----------|--------|---------------|
| Micro-centrifuge | | | | | | 2,000 | | | | | | |
| | ✓ | | | | | | ✓ | ✓ | ✓ | | | |
| | ✓ | ✓ | ✓ | ✓ | | 16,300 | ✓ | ✓ | ✓ | | | |
| | | ✓ | ✓ | ✓ | ✓ | 21,380 | ✓ | ✓ | ✓ | | | |
| Compact | ✓ | | | | | 1,900 | | | ✓ | | | |
| | ✓ | | | | | 3,120 | | | ✓ | | | |
| | | | ✓ | | | 4,185 | | | ✓ | ✓ | | |
| Universal | | ✓ | ✓ | ✓ | | 17,310 | ✓ | | ✓ | ✓ | ✓ | |
| | | ✓ | ✓ | ✓ | ✓ | 17,310 | ✓ | | ✓ | ✓ | ✓ | |
| | | ✓ | ✓ | ✓ | | 17,310 | ✓ | | ✓ | ✓ | ✓ | ✓ |
| | | ✓ | ✓ | ✓ | ✓ | 17,310 | ✓ | | ✓ | ✓ | ✓ | ✓ |
| High Performance | | ✓ | ✓ | ✓ | | 16,904 | | | ✓ | ✓ | ✓ | ✓ |
| | | ✓ | ✓ | ✓ | ✓ | 16,904 | | | ✓ | ✓ | ✓ | ✓ |

EVER Scientific



Phone: 610. 524. 5810

Fax: 610. 524. 5814

info@everscientific.com

www.everscientific.com